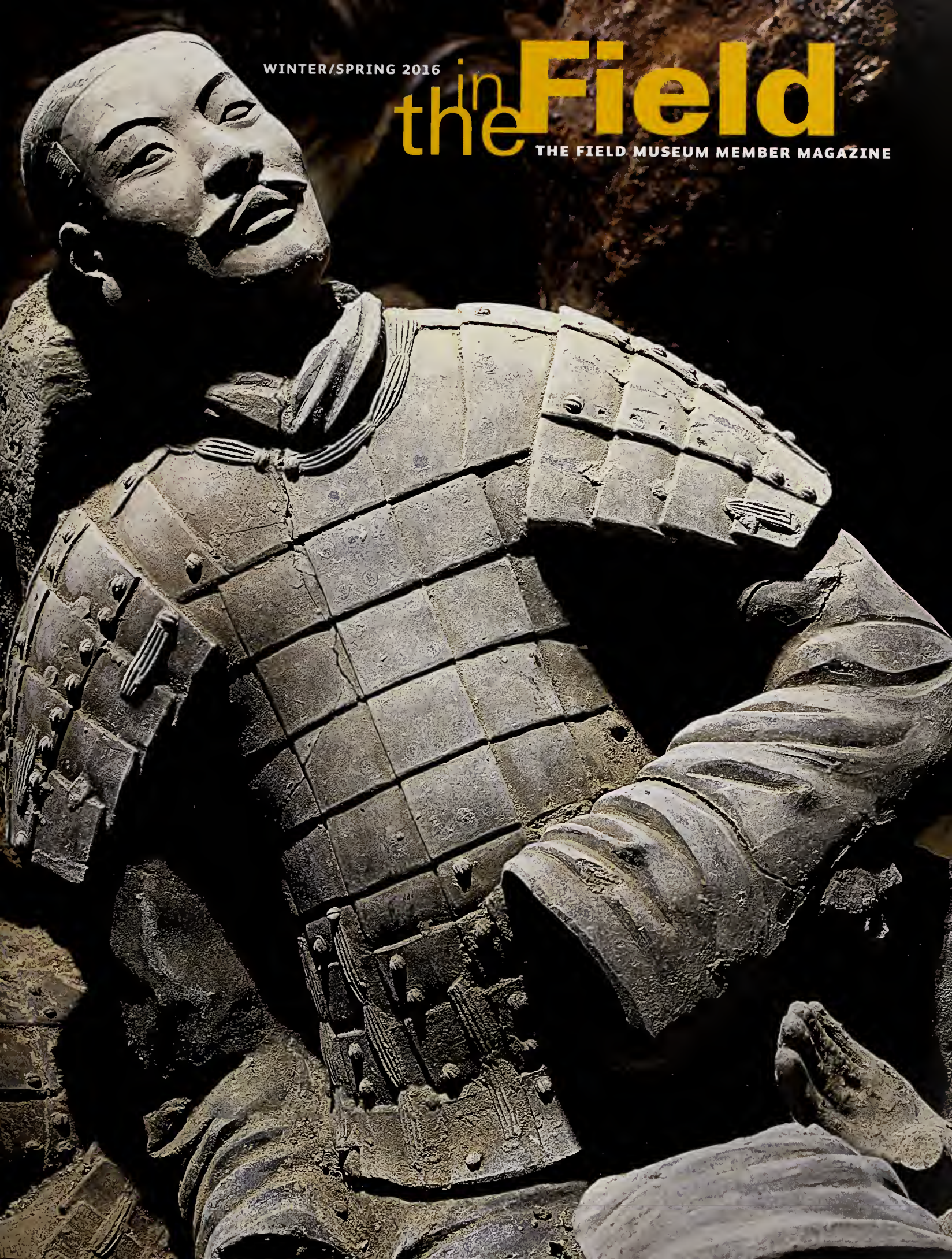


WINTER/SPRING 2016

# in the Field

THE FIELD MUSEUM MEMBER MAGAZINE





the Field  
WINTER/SPRING 2016

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# ON THE COVER

In 1974, a farmer digging a well  
unearthed the head of one of China's  
famed terracotta warriors. See some  
of these fired clay soldiers at *The Field  
Museum in China's First Emperor and  
His Terracotta Warriors*. (Page 4.)

SHÁNXI LĪTŪRĀ HĒTĀCĀ  
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# dear **member,**

As science evolves, so do our perspectives. New theories are formulated and hypotheses tested, challenging us to see the world in novel ways.

One case in point: our evolving perspectives on race and science. In the 1930s, The Field Museum commissioned artist Malvina Hoffman to create 150 bronze figures illustrating physical traits of humans during a time when science sought to classify people according to facial features and other external characteristics. But with advances in the field of genetics, this kind of racial categorizing was eventually discredited. The Museum, in turn, responded to mounting scientific evidence and shifting views by dismantling the original exhibition in the 1960s.

Today, the newly restored Hoffman bronzes are back on view at The Field, but displayed within a new context. (See page 7.) The exhibition acknowledges the collection's great artistic merit while addressing changes in scientific thought—and societal values—that have taken place since Hoffman created the sculptures more than 80 years ago.

In addition to the Hoffman bronzes, the Museum will also present *China's First Emperor and His Terracotta Warriors*, a major new exhibition from China organized by The Field. The Museum will display a selection of these full-scale

clay figures, remarkable for their sheer numbers and individual detail. Both *Terracotta Warriors* and the Malvina Hoffman exhibition represent the power of art and science to bring human stories and cultures to life.

Outstanding presentations such as these are only possible through your generous support. Thank you for your continued commitment to the Museum's mission.



**RICHARD W. LARIVIERE, PHD**  
PRESIDENT AND CEO



GN91703\_09AD / JOHN WEINSTEIN



**MORE THAN 2,000 YEARS AGO, CHINA'S FIRST EMPEROR BUILT A BURIAL COMPLEX GUARDED BY A LARGE TERRACOTTA ARMY INTENDED TO PROTECT HIM IN THE AFTERLIFE.** Now, some of these warriors are journeying to Chicago in a new exhibition opening March 4 at The Field Museum. *China's First Emperor and His Terracotta Warriors* will feature more than 170 objects, including stunning bronze artifacts, weaponry, and nine of the famed, life-sized terracotta warrior figures.

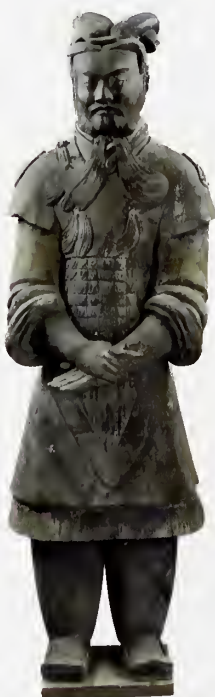
# CHINA'S FIRST EMPEROR AND HIS TERRACOTTA WAR



Considered one of the greatest archaeological finds of the 20th century, the massive burial complex of Qin Shihuangdi [chin she-wong-dee], the First Emperor of China, contains an estimated 8,000 terracotta soldiers. The Emperor's rise to power in

221 BC ended an era known as the "Warring States" period, a time of instability and broken alliances when seven competing states vied for power. (Learn more about this time period in the Museum's new permanent exhibition, *Cyrus Tang Hall of China*.)

To defeat his enemies and establish a unified state, Qin Shihuangdi employed an organized military, a strong cavalry, and superior weapon technology. The crossbow revolutionized warfare during this time, allowing archers to shoot nearly 900 yards—with less skill and strength than was needed for a bow and arrow. The exhibition displays examples of crossbow fittings, along with other weapons used by Qin military forces, including a chrome-plated sword, lance heads, dagger-axes, and spears.



Although the First Emperor's reign was relatively short, he enacted several important innovations that made a lasting impression on China, many still evident today. He strengthened his newly founded empire by building a precursor to China's Great Wall and constructed new roads and canals to increase trade. To rule more effectively, Qin Shihuangdi put in place a single currency, a standard form of writing, and a system of weights and measures. Examples of these innovations are on display in the exhibition, including several *banliang* (ban-lee-ang)—circular coins with a square hole—that became the standard Chinese currency for the next 2,000 years.

Even though the First Emperor made public improvements, he was not without enemies; three unsuccessful assassination attempts increased his fear of death and drove his quest for immortality.

© SHAANXI CULTURAL HERITAGE PROMOTION CENTER AND EMPEROR QIN SHIHUANG'S MAUSOLEUM SITE MUSEUM





# TERRACOTTA WARRIORS



To rule for eternity, Qin Shihuangdi constructed a palace for his afterlife and instructed his craftsmen to make a terracotta army to protect him after his passing. For more than 30 years, legions of workers contributed to this massive undertaking, fabricating everything the First Emperor might need after his death. Included are what are believed to be acrobats, musicians, and exotic animals to provide entertainment.

*China's First Emperor and His Terracotta Warriors* presents nine full-size human figures, including several warriors, a general, an acrobat, and an official, as well as one life-sized horse. Although most of the fired clay figures have lost the bright hues of their original paint, two replica warriors—decorated in vivid purples, teals, and reds—represent how the terracotta soldiers appeared after they were first created two millennia ago.

The terracotta warriors, generals, and others lay buried for centuries until 1974, when a farmer digging a well discovered them. Although the tomb itself was known historically—and visible on the landscape as a giant earthen mound—the vast burial complex surrounding the site had been undiscovered until then. Archaeologists began work excavating the site, a process that continues today. Hundreds of pits, covering an area of nearly 22 square miles, have been located so far.

The central tomb containing the First Emperor himself remains sealed. Stories tell of a mercury river and a celestial ceiling mapped out in pearls, but none of these accounts have been confirmed. As you leave *Terracotta Warriors*, you'll learn about the scientific investigations

that hope to shed new light on the mysteries of the tomb. **ITF**



**For more details or to purchase your discounted tickets, call 312.665.7705 or visit [fieldmuseum.org/support/members](http://fieldmuseum.org/support/members).**



This exhibition was organized by The Field Museum in partnership with the Shaanxi Provincial Cultural Relics Bureau, Shaanxi Cultural Heritage Promotion Center, and Emperor Qin Shihuang's Mausoleum Site Museum of the People's Republic of China.

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# Supporting The Field: Candace and Gary Drimmer

By Mary Jane Keitel, Major Gifts Officer

**IT IS IMPORTANT TO CANDACE AND GARY DRIMMER TO KEEP FOCUSED ON THE WIDER WORLD AND THE LATEST SCIENTIFIC RESEARCH AROUND THE GLOBE.** This is no surprise, as they have lived in seven countries, raising their family and doing business internationally. When the Drimmers settled in Chicago, they naturally sought out vibrant experiences.



GN02186\_0428D / JOHN WEINSTEIN

"We were semi-retired, had always volunteered, but never in a museum," said Gary. "The Field is a wonderful museum with its openness to the public." He became a volunteer giving tours of *The Ancient Americas* galleries and working in the anthropology collection. Gary grew up in Peru and has visited many of the sites presented in *The Ancient Americas* exhibition. "I can do tours in Spanish, and sometimes I'll do a bilingual tour. I love talking to the international visitors and school groups."

A year ago, Candace and Gary decided to give back some of the bounty of life they continue to enjoy. Candace said, "Our grown children were thinking about estate planning and were full of encouragement for us to do likewise. It was our mutual decision to put The Field Museum in our estate plans. It just seemed elementary to me. Science is getting such a bad rap these days and it needs real support from the public."

They sought advice from the Museum's professionals and then worked with their financial advisor to find the best way to make a future gift that achieves their goals. One of their goals is to provide resources for conservation of the anthropology collection.

Gary added that he helps prepare objects going out on loan. "It's about sharing the wealth of the Museum's collection with others." He and Candace sustain this spirit of generosity for future generations through their estate plans, too. **ITF**

## PLANNED LEGACY

*Including The Field Museum in your will or estate plans can ensure the fulfillment of the Museum's mission for generations to come. There are many ways for you to begin your legacy now. If you have already made or are planning to make The Field Museum one of your beneficiaries, please let us know so we may thank you. For more information about making a planned gift, please contact Robert M. Shafis, JD, Director of Major and Planned Gifts, 312.665.7666 or [rshafis@fieldmuseum.org](mailto:rshafis@fieldmuseum.org).*

**"It's about sharing the wealth  
of the Museum's collection  
with others."**



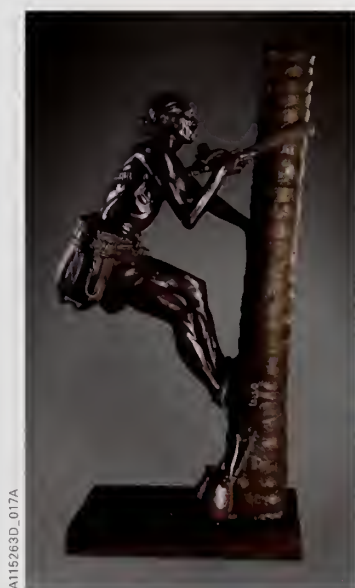
# Looking at Ourselves

## Rethinking the Sculptures of Malvina Hoffman

By Matt Matcuk, PhD, Exhibition Development Director

**ON JANUARY 15, THE FIELD MUSEUM WILL OPEN AN EXHIBITION OF 50 BRONZES BY THE AMERICAN ARTIST MALVINA HOFFMAN (1885–1966).** The sculptures were created in the 1930s for the hall of *Races of Mankind*, but most went into storage when the original exhibition was de-installed in 1969. Those that remained on view—displayed without barriers and within reach of inquiring hands—suffered damage over the years. Acids, oils, and dirt left by years of touching had eroded their surfaces.

A Tamil Man from  
Southeast India



Bronze is normally given an oxidized surface treatment of uniform brown, green, or black. But many of Hoffman's pieces incorporate several colored patinas, either to suggest different skin tones or to highlight subjects' clothing, hair, or the objects they held. In 2014 conservators began restoring the bronzes, focusing on these damaged patinas. After more than a year of work, the bronzes are ready to go back on display inside the Gary C. Comer Family Gallery located on the Museum's second level.

Conservator Emily Johnston-O'Neill  
at work on A Man from Austria.



Although the statues are now restored to their original appearance, Curator of North American Collections Alaka Wali, PhD, did not want to restage the original 1933 exhibition. Instead, she wanted to critique its fundamental message: that people can be scientifically classified into distinct races using physical features. Wali and the exhibition team decided to showcase what the current science tells us about physical and cultural differences.

To do this, they divided the sculptures into three groups. The first presents an ethnographic interpretation, showing different ways people creatively used environmental resources and accumulated knowledge to respond to the common concerns we all share. The second group focuses on the story of Malvina Hoffman, the artist,



Conservator Allie Cassidy at work  
on A Woman from Sudan.

and the intriguing events that led to the creation of these sculptures and the original *Races of Mankind* exhibition. The third group, a display of 16 portrait busts, connects the prejudice that still haunts us with its historic roots in the science that was once used to rationalize racism. **ITF**

*Conservation and re-installation of the Hoffman works are made possible by a generous gift from Pamela K. and Roger B. Hull. The Elizabeth Morse Genius Charitable Trust is a generous sponsor of this exhibition. Additional support provided by an anonymous donor.*

IMAGES BY JOHN WEINSTEIN

# Dr. Bill Stanley: A Tribute

By Bruce Patterson, PhD, MacArthur Curator of Mammals

## ON OCTOBER 6, 2015, WILLIAM (BILL) T. STANLEY, PHD, DIED OF A HEART ATTACK

**WHILE CONDUCTING FIELDWORK IN ETHIOPIA.** He was 58 years old. With his passing, The Field Museum, the science of mammalogy, and all of natural history lost one of its most engaging, talented, and admired practitioners.

At the heart of Bill's prominence and professional success was his warm, generous personality. He was instantly likable and invited familiarity. These qualities helped cultivate the devotion that his co-workers, volunteers, and interns felt for him. It made Bill a welcome member of any committee or team. His remarkable wit and knack for finding humor in practically any situation drew people closer to him.



GN91774\_0050 / JOHN WEINSTEIN

As the Negaunee Mammals Collections Manager and Director of the Gantz Collection Center, Bill was gatekeeper to the Museum's encyclopedic collection, which attracts hundreds of visiting scientists from throughout the world. Born in Lebanon and raised in the United States, Kenya, and Brunei (his father worked internationally), Bill was exposed to many cultures, making him particularly adept at facilitating the work of foreign visitors.

Bill's family and his childhood experiences in Kenya helped cultivate his love for both nature and science. From 1989 onwards, Bill worked to document East Africa's small mammals, especially those on Tanzania's Eastern Arc mountain ranges.

Each year he would spend two to three months in the field, amassing truly exceptional collections (and growing an equally remarkable beard). Through his research, Bill forged collaborations with many scientists and discovered and described many new species of mammals—including mice, shrews, and bats—and played a central role in describing an entirely new genus of monkey.

As impressive as these accomplishments are, they exclude Bill's most exceptional talent—he was an incredibly effective science communicator. Bill mixed his deep knowledge and passion for the subject matter with his understanding of and empathy for diverse audiences. He brought science to the public in accessible ways, making it seem both important and fun. The world is much richer for Bill having been here. **ITF**

*"Bill will always hold a special place in my family's heart. Anyone who met him couldn't help but be inspired to look at the world in a new way and appreciate the power of scientific curiosity."*

**Bill Gantz**  
Field Museum Trustee

*"Bill was one of those magical personalities who left everyone his life touched in a better mood and sharing with the wonder he found in the world. There is an aching gap in our lives that will take time to heal."*

**Richard W. Lariviere**  
Field Museum President and CEO



GN91835\_1480 / KAREN BEAN



# New Museum Diorama: Striped Hyenas

By Sarah Crawford, Exhibition Developer

**ON OCTOBER 8, 1954, CROWDS OF PEOPLE WAITED IN ANTICIPATION TO SEE A NEW DIORAMA UNVEILED AT THE FIELD MUSEUM.** The Asian tapir display was the first to be added to the *Hall of Asian Mammals* in over a decade, marking the end of an era.

Between 1926 and 1954, Leon Walters, the Museum's chief taxidermist, worked to complete 19 of 20 dioramas planned for the hall. After celebrating the completion of the tapir display, he retired.

*The original installation of the Museum's striped hyenas (left) and a scale model of the new diorama (below).*



UN92166 TAXIDERMIST JOHN WEINSTEIN



EMILY WARD / EXHIBITION

Many of the other staff taxidermists and mural painters soon followed, leaving the hall unfinished.

More than 60 years later, The Field raised funds to complete the last of the Asian Mammal dioramas. (See "Project Hyena Diorama" sidebar.) The exhibition team—composed of Museum curators, content developers, designers, conservators, and production staff—began work with a group of taxidermied striped hyenas and an otherwise blank canvas. The team's job: to fill in the voids and build a world around these animals.

Striped hyenas live in both Asia and Africa. The legendary Carl Akeley collected the Museum's specimens on an 1896 expedition to Somalia. An avid documentarian, Akeley took hundreds of photographs during his African expedition. The exhibition team combed through each photo with Museum scientists to identify plants and rocks and reconstruct the hyenas' environment as it appeared circa 1896.

"The boundaries of countries, or even continents, don't matter much to animals, including these striped hyenas, which live in both southern Asia and northern Africa," explains Nauganee Curator Lawrence Heaney, PhD, who co-curated the diorama with Negaunee Mammals Collections Manager and Director of the Gantz Collection Center Bill Stanley, PhD. (See facing page.) "Because these particular animals were collected in Somalia, we have chosen to reconstruct the landscape in which they lived."

You can view the hyenas on January 27 after their official unveiling. Stop by and experience the completed *Hall of Asian Mammals*, a project started by past generations of Museum staff so long ago. **ITF**

## PROJECT HYENA DIORAMA

To complete the new hyena diorama, The Field Museum raised more than \$155,000 from around the world. The crowdfunding website Indiegogo.com was the platform used to attract more than 1,800 individuals and organizations who donated between \$5 and \$10,000 each. Many of these generous supporters learned about Project Hyena Diorama through The Brain Scoop, hosted by the Museum's Chief Curiosity Correspondent, Emily Graslie. To see highlights of the installation process, visit [www.youtube.com/thebrainscoop](http://www.youtube.com/thebrainscoop).



# CALUMET NATIONAL HERITAGE AREA

*By Christine Thom, Science Writer*

**NATIONAL HERITAGE AREAS (NHAs) ARE DESIGNATED BY CONGRESS AS PLACES WHERE NATURAL, CULTURAL, AND HISTORIC RESOURCES COMBINE** to form a cohesive landscape of national importance. NHAs celebrate America's diverse heritage by helping to preserve these significant regions for future generations.



[www.calumetheritage.org/cnha](http://www.calumetheritage.org/cnha)



The Field Museum is currently involved in the creation of a new NHA in the Calumet region. The proposed corridor spans approximately 50 miles from the Pullman National Monument located on Chicago's southeast side to the Indiana Dunes National Lakeshore. The Museum is a leading member of the Calumet Heritage Partnership (CHP), the organization responsible for developing the feasibility study needed for federal designation. The Partnership plans to complete the study in 2016 in time for the centennial of the National Park Service and the Indiana Dunes National Lakeshore.

An NHA designation would bring local and national recognition to this ecologically significant area and its unique cultural history characterized by the longtime presence of heavy industry. The NHA's role also will be one of stewardship. It will serve as an umbrella organization, facilitating tourism and encouraging cooperation on habitat restoration throughout the region.

The Calumet region hosts a stunning array of landscapes and a high level of biodiversity. Wetlands, prairies, bogs, forests, and the amazing sand dunes located along the Indiana shoreline of Lake Michigan are home to more than 2,200 species of plants and animals.

ALL IMAGES COURTESY KELLER SCIENCE ACTION CENTER / THE FIELD MUSEUM





## RESTORING CALUMET

By Robb Telfer, Calumet Outreach Coordinator

Despite being one of the most industrialized and populated places in the world, the Calumet area contains many biological treasures. It takes the work of volunteers to restore and protect these habitats and species so they can continue to coexist with people and development. Working with partner organizations, The Field Museum leads habitat restoration workdays throughout the Calumet area in which people of any skill level can participate. Over the past three years, volunteers have collaborated with Museum ecologists to rescue one important wetland: Eggers Grove on Chicago's southeast side. By removing an aggressive nonnative plant called common reed and planting 10,000 indigenous plants in its place, the habitat restorers have revived Eggers Grove and will continue to work there and at other wild spaces in Calumet for years to come.

**For more information about how to volunteer, please contact Robb Telfer at [RTelfer@fieldmuseum.org](mailto:RTelfer@fieldmuseum.org).**



Part of the mission of an NHA is to celebrate and preserve an area's cultural heritage. Across both Illinois and Indiana, the Museum has convened Calumet Community Conversations as part of the Partnership's effort. "We are expanding on

what we already know about Calumet's rich cultural history," explains Applied Cultural Research Manager Madeleine Tudor, PhD, of the Museum's Keller Science Action Center. "At these events, local residents share stories about their ethnic and cultural heritage, their knowledge about the region's industrial history, how the arts have often served to express that history and their concerns for the environment."

Chicago Region Program Director Mark Bouman, PhD, serves as president of the Calumet Heritage Partnership. "From its foundation nearly 125 years ago," says Bouman, "The Field Museum has been investigating the natural and human history of the Calumet region at our doorstep. The National Heritage Area shines a light on these resources and, in so doing, helps to protect them."

To learn more and to support the Calumet National Heritage Area, visit [www.calumetheritage.org/cnha](http://www.calumetheritage.org/cnha) and like Calumet Heritage Partnership on Facebook. **ITF**

The Field Museum gratefully acknowledges the following partners for their support of programs in the Calumet Region:



# In The Spotlight: A Buddha from Gandhara

By Franck Mercurio, Editor

**INSIDE THE CYRUS TANG HALL OF CHINA, THERE RESIDES A NEARLY 2,000-YEAR-OLD BUDDHA FIGURE THAT COMBINES BOTH EASTERN AND WESTERN AESTHETICS.** Although the stone sculpture did not originate in China, it serves as an example of the blending of cultures that existed along the Silk Road, the fabled overland route that linked the Mediterranean world with Central Asia and China.



Statue of Buddha  
1st–2nd century AD  
Pakistan  
151809

GEDI JAKOVICKAS / EXHIBITIONS

The Museum's Buddha figure comes from ancient Gandhara, a region located in northern Pakistan near the modern-day city of Peshawar. This area was conquered by Alexander the Great in 327 BC. Soon after, Alexander and his military founded Greek-style cities here and in neighboring Bactria, located in modern-day Afghanistan. The invaders left a lasting impact. Greek administrators, culture, and traditions continued to influence life in this corner of Central Asia for centuries to follow.

The strategic Khyber Pass linked Gandhara to the Silk Road on the other side of the Hindu Kush Mountains. The territory became an important—and wealthy—trading nexus connecting Central Asia and India via trade routes that followed the Indus River and Ganges River valleys. It was along these routes that Buddhism made its way north to Gandhara around the third century BC.

As the new religion flourished, so, too, did a material culture that reflected Gandhara's ties to both East and West. A hybrid Greco-Buddhist artistic style emerged, one that is exemplified by the Museum's "Gandhara Buddha." Although the sculpture represents an Indian subject, it betrays some Hellenistic influences. The artist was concerned with natural proportions, idealized beauty, *contrapposto* or "counter pose" where the figure's weight is balanced on one leg, similar to Classical Greek and Roman sculptures. The figure also wears a toga-like outfit, as did Gandhara's rulers.

To learn more about Alexander's lasting impact on ancient Gandhara and the other regions he conquered, visit *The Greeks—Agamemnon to Alexander the Great* (now open through April 10). To see the Museum's Gandhara Buddha, visit the *Cyrus Tang Hall of China*. **ITF**

The Cyrus Tang Hall of China is made possible with the generous support of the Cyrus Chung Ying Tang Foundation. Additional support provided by the William G. McGowan Charitable Fund in memory of Sue Ling Gin-McGowan.

Education and Community Partner:







# ECHOES OF STONE AGE GREECE

By William A. Parkinson, PhD, Associate Curator of Anthropology

**SINCE 2010, I'VE PARTICIPATED IN THE DIROS PROJECT, AN INTERNATIONAL, MULTI-DISCIPLINARY, RESEARCH PROGRAM CENTERED ON ALEPOTRYPA CAVE** in the Mani Peninsula of the southern

Greek mainland. Alepotrypa is a massive cave complex used by ancient farmers throughout the Neolithic period (circa 6000–3000 BC). The site, which was discovered in the 1950s and has been excavated by my colleague Dr. Giorgos Papathanassopoulos since the early 1970s, contains the remains of hundreds of people who were buried inside the cave. Because the entrance to the cavern collapsed at the end of the Neolithic period, the cave is a veritable time capsule—a pristine Neolithic “Pompeii” that permits us the

unique opportunity to explore how early farmers lived and died in the eastern Mediterranean millennia ago.

I have been working with a research team to publish information on the thousands of artifacts and human bones that have been collected at the site and also to put Alepotrypa into a regional context. During a survey of the bay around the cave, the Diros team identified a settlement outside the cave entrance that also was occupied during the Neolithic period. In addition

to the remains of houses, our excavations at the site revealed several burials including a couple (man and woman) who were buried in a “spooning” position—an unusual arrangement that the team is still researching.

You can learn more about The Diros Project and the team’s archaeological work in *Echoes of Stone Age Greece*. This exhibition includes a three-dimensional reconstruction of the cave and the surrounding open-air site as well as media pieces and digital interactives. **ITF**

*Echoes of Stone Age Greece* was organized by The Field Museum. This exhibition is made possible by a grant from the U.S. Institute of Museum and Library Services.



## FIELD ENCOUNTERS

Want to learn more about scientific research at The Field Museum?

See page 16 for details.



## DON'T MISS

*The Greeks—Agamemnon to Alexander the Great*, now open through April 10. Spanning 5,000 years of history, the exhibition presents the story of Greek culture from its origin in Neolithic villages through its expansion during the conquests of Alexander the Great—all told through the perspectives of people from Greece’s ancient past.

On the occasion of its partnership with The Field Museum, the National Hellenic Museum offers a rich cultural program of exhibitions, events, and activities showcasing the enduring universal relevance of Greek history and culture in collaboration with



eminent scholars and institutions from around the country and abroad. For details, visit

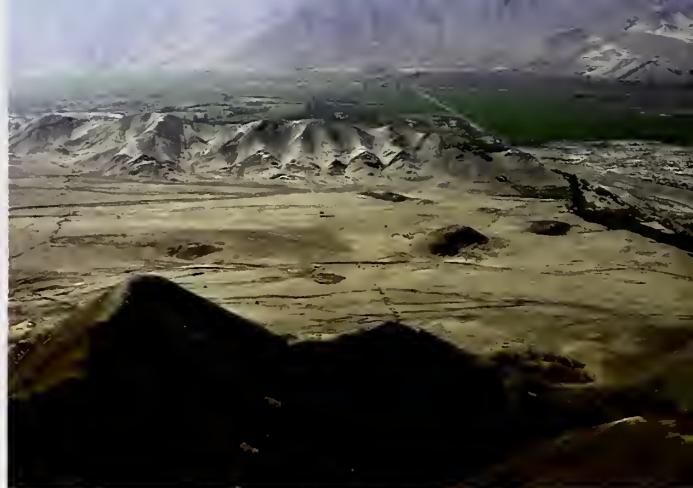
[www.nationalhellenicmuseum.org](http://www.nationalhellenicmuseum.org).



An exhibition developed by the Hellenic Ministry of Culture and Sports (Athens, Greece), The Field Museum (Chicago, USA), the National Geographic Museum (Washington, DC, USA), Pointe-à-Callière, Montréal Archaeology and History Complex (Montréal, Canada), and the Canadian Museum of History (Gatineau, Canada).

The Greeks is co-presented in Chicago by The Field Museum and the National Hellenic Museum, and made possible by the generous contribution of The John P. Calamos Foundation and John P. Calamos Sr., Chairman of the Board of Trustees of the National Hellenic Museum.

IMAGE (TOP OF PAGE)  
ARCHAEOLOGICAL MUSEUM OF AIGAI, VERGINA



# Trading Trowels for Technology: Exploring Ancient Peru

**IN POPULAR CULTURE INDIANA JONES, THE ACTION HERO OF THE BIG SCREEN, IS OFTEN SEEN AS A MODEL FOR HOW ARCHAEOLOGISTS OPERATE IN THE FIELD.** But since the era depicted in the movies, there has been a revolution in technology. Archaeologists are trading in their trowels (they never really used bullwhips) for drones and satellites.



By *Matthew Piscitelli, PhD,*  
*Research Associate*

I traveled to Peru this past summer to explore the 5,000-year-old mound site of Caballete. My goal was to use modern technology to identify buried structures without putting a shovel in the ground.

Caballete features some of the earliest monumental ceremonial architecture in the Americas, including six platform mounds and three sunken circular plazas. Unfortunately, we have little information concerning how these structures were built and what sorts of religious rituals took place within them. In collaboration with the Center for Advanced Spatial Technologies at the University of Arkansas, my team and I used ground-penetrating radar (GPR) and magnetometry to pinpoint subsurface ceremonial architectural structures and discover clues about their likely function.

GPR works by sending pulses of energy into the ground, measuring the strength and time required for the return of reflected signals. The device itself consists of two antennae to send and receive signals and a laptop mounted onto a cart that is dragged across the ground. Buried objects, such as stone walls, reflect a unique visual signature. At Caballete, we discovered small temple-like structures on top of several platform mounds. The GPR survey also revealed multiple concentric walls within the main sunken circular plaza.

These ringed walls indicate that the diameter of the plaza increased over time, probably to accommodate larger crowds during prehistoric ceremonial performances.

Magnetometry measures magnetism in the soil. Ancient activities, particularly burning, leave magnetic traces. An exploratory pass of the magnetometer along the periphery of Caballete's platform mounds detected magnetic analogies that likely represent campfires used by ancient religious pilgrims who might have visited Caballete on a seasonal basis.

Using these magnetometry and GPR results, we hope to return to Caballete to conduct more targeted and cost effective archaeological excavations. To learn more, visit [caballetearchaeologicalresearch-project.wordpress.com/welcome](http://caballetearchaeologicalresearch-project.wordpress.com/welcome) and like us on Facebook. **ITF**



## FIELD ENCOUNTERS

Want to learn more about scientific research at The Field Museum?

See page 16 for details.

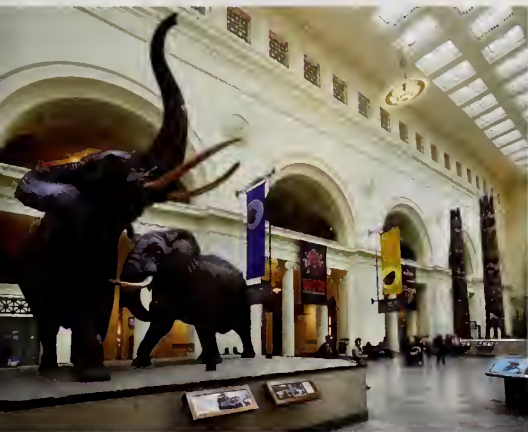
ALL IMAGES COURTESY  
MATTHEW PISCITELLI / SCIENCE & EDUCATION



# Engaging Visitors with New Digital Technology

By Taylor Peterson, Exhibitions Project Manager

**IF YOU'VE VISITED THE FIELD MUSEUM IN RECENT MONTHS, YOU MAY HAVE NOTICED A VARIETY OF DIGITAL DISPLAYS POPPING UP AROUND THE BUILDING.** These new interactive touchscreens and wayfinding maps have been custom designed and programmed by the Museum and supported through the Grainger Digital Initiative.



GN92050\_053AD



GN92184\_1048D

Beginning in 2014, the Museum incorporated interactive touchscreen labels at several permanent displays, including the African elephants, Haida totem poles, Maori Meeting House, McDonald's Fossil Prep Lab, and SUE. The rollout continues with installations in January at the new striped hyena diorama in the *Hall of Asian Mammals* (see page 9) and *Looking at Ourselves: Rethinking the Sculptures of Malvina Hoffman* (see page 7).

The *Cyrus Tang Hall of China* is the Museum's first hall-wide implementation of interactive touchscreen labels. Inspired by the format of a traditional printed label, each touchscreen features fundamental information about the objects or artifacts on view. For visitors who want to take a deeper dive, the digital format offers a greater opportunity to satisfy curiosity by providing additional layers of information—such as stories about the object's history, conservation, and related research—along with a variety of images, media, and interactive elements.

The Museum's new interactive maps also organize a plethora of information. More than simple wayfinding devices, these touchscreens orient visitors to the Museum and provide details to help plan their day. They feature an up-to-the-minute list of all available exhibitions, tours, 3D films, and public programs, as well as glimpses into a few non-public areas, such as collections, research, and educational spaces.



GN92050\_057AD

Visitors can also send pre-made and custom itineraries directly to their smart phones or tablets. For maximum accessibility, five stations are positioned at key high-traffic locations throughout the building.

By telling compelling stories about The Field's iconic collections, ongoing research, and breadth of displays, the Museum's digital initiatives collectively enhance the visitor experience. The new technology also allows for regular updates as content evolves. Due to their success and stability, both programs serve as a template for future iterations as The Field continues to develop forward-thinking methods of visitor engagement. **ITF**

*The Grainger Digital Initiative is made possible with the generous support of The Grainger Foundation.*

IMAGES BY JOHN WEINSTEIN

## Cyrus Tang Hall of China Exhibition Online

By Taylor Peterson, Exhibitions Project Manager

The Field Museum has launched a free digital companion guide to the *Cyrus Tang Hall of China*. The *Cyrus Tang Hall of China* Exhibition Online is accessible through the Museum's website and allows users to explore the entire exhibition virtually. Included are stories about exhibited objects, 360-degree object photography, image slideshows, maps, interactive media, and immersive experiences. Visitors who utilize the guide in the gallery (through tablets or smart phones) can locate objects on display with an integrated search feature. Designed to function on a variety of devices—including a desktop version for at-home use—the *Cyrus Tang Hall of China* Exhibition Online delivers the exhibition's experience to Museum audiences around the world. A Chinese language version of the guide will be available in March.

*The digital companion guide to the Cyrus Tang Hall of China was generously supported by the Elizabeth F. Cheney Foundation and the Henry Luce Foundation.*



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Coming soon!

## Women of Vision

In societies from the Arctic to Sub-Saharan Africa, among teens in the US, and in remote deserts and mountains, what does a female photojournalist's eye pick out? A powerful new generation of photographers, on assignment for National Geographic, has traveled the world and born witness to wars, documented the roles of women, and captured splendid landscapes. Experience the eloquent images of 11 award-winning photojournalists and learn how each developed her own style and passion for exploration. *Women of Vision: National Geographic Photographers on Assignment* opens May 18 and features 100 photographs, as well as video and touchscreen experiences.



National Presenting Tour Sponsor:



Additional local support provided by:



CHICAGO'S OWN  
GOOD HANDS

*Women of Vision is traveled and organized by the National Geographic Society.*



## FIELD ENCOUNTERS

Donors to The Field Museum's Annual Fund now have new opportunities to tailor their learning experiences through the Field ENCOUNTERS program. Gain access to Museum programs and stay in-the-know on topics of your choice. Depending on your level of support, up to three Field ENCOUNTERS tracks may be chosen.

Please opt in to this program to receive additional details and ENCOUNTERS invitations. If you are a current Annual Fund supporter and would like to select your Field ENCOUNTERS, or if you would like more information about the program, please contact Katlyn Hemmingsen at 312.665.7789 or [khemmingsen@fieldmuseum.org](mailto:khemmingsen@fieldmuseum.org).



# Treasures Fit for an Emperor

From traditional blue and white porcelain to modern settings of jade jewelry and contemporary reproductions of terracotta soldiers, you're sure to discover a treasure to call your own in the exhibition store of *China's First Emperor and His Terracotta Warriors*—all inspired by the splendor of the First Emperor of China!



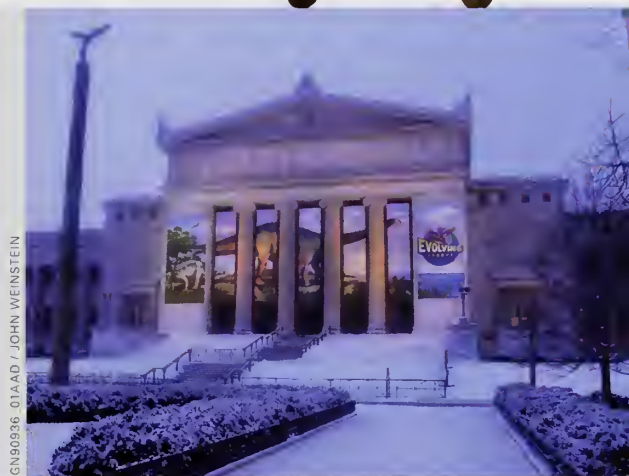
Remember, Field Museum members receive a 10 percent discount on all Museum Store purchases, and each purchase supports the Museum's public and scientific programs. As always, you can shop 24 hours a day at [store.fieldmuseum.org](http://store.fieldmuseum.org) using the discount code MEMBER.



## NEW MEMBERSHIP BENEFITS

**Exciting changes are coming to your membership benefits!**

The Museum will roll out great new membership benefits in February, including more access to ticketed exhibitions. Full details on these changes will be emailed to all members and available on our website at [fieldmuseum.org/support/members/member-benefits](http://fieldmuseum.org/support/members/member-benefits). Not sure if we have your email address on file? Give us a call at 312.665.7700 or email [membership@fieldmuseum.org](mailto:membership@fieldmuseum.org) to check.



## museum campus neighbors

### ADLER PLANETARIUM

Explore space with us at the Adler! Celebrate **Mars-di Gras** on February 6. Transport yourself to the Red Planet, masquerade as the first Martians, and experience first-hand what it would be like to live, work, and play on Mars. Space is freaking awesome, and so is our home planet. Celebrate Earth's past, present, and future during Earth Day weekend, April 22–24. The **Reel Science film series** helps separate the “sci” from the “fi” in your favorite movies! Each film will be followed by a lively discussion of science on screen. For more details, visit [www.adlerplanetarium.org](http://www.adlerplanetarium.org).

### SHEDD AQUARIUM

Shake off the winter blahs with an activity-filled **Asleep with the Fishes** overnight at Shedd Aquarium! Have adventures with 32,000 animals, including more than 40 amazing frogs, salamanders and caecilians in the **Amphibians** special exhibit. Then drift off to sleep next to a soothing Caribbean reef. Great for families and groups, dates are available in January, February, and March. And plan a Valentine's Day date at Shedd. We guarantee you'll find a moray and more as you stroll through the galleries with your special someone. For more information, visit [www.sheddaquarium.org](http://www.sheddaquarium.org).



The Field Museum salutes the people of Chicago for their long-standing support of the Museum through the Chicago Park District.

Official Airline of The Field Museum



# events



LEARNING CENTER / THE FIELD MUSEUM

## DINO CAMP

### I spy a dinosaur! Do you?

Dino Camp is an early childhood camp designed expressly for young explorers ages 3–4 and their caregivers. Tickets are on sale now. \$76, \$67 members

- 1 Tuesdays / June 7 + 14
- 2 Wednesdays / June 8 + 15
- 3 Tuesdays / June 21 + 28
- 4 Wednesdays / June 22 + 29

FAMILIES KIDS EDUCATORS TEENS



LEARNING CENTER / THE FIELD MUSEUM

## TWEEN BRIDGE PROGRAM

The Tween Bridge Program gives graduating eighth graders the chance to be a teen volunteer at The Field. In this week-long program, incoming freshman will work alongside teen volunteers to learn about the Museum and its collections. Participants will develop and showcase their very own program in Stanley Field Hall. FREE. Apply online beginning February 22.

- 1 Mon–Fri / July 11–15 / 10am–3pm
- 2 Mon–Fri / July 25–29 / 10am–3pm

FAMILIES KIDS EDUCATORS TEENS



LEARNING CENTER / THE FIELD MUSEUM

## LESSONS FROM THE FIELD

Take a virtual field trip to the Museum! Go behind the scenes and explore our collections and research with a Field Museum educator. \$59 per classroom (35 students or less), \$99 per classroom (36 students or more)

Available Monday–Friday / 9am–4pm  
with 4 weeks advanced registration

FAMILIES KIDS EDUCATORS TEENS



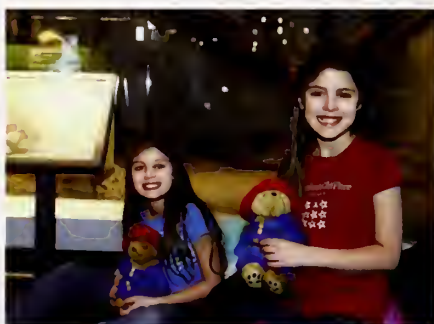
JOHN WEINSTEIN

## SUMMER WORLDS TOUR

Summer Worlds Tour offers a week of adventures in Chicago's premier museums. Designed for children entering kindergarten through fifth grade in the fall of 2016. Please visit [www.adlerplanetarium.org/camps](http://www.adlerplanetarium.org/camps) to register. Registration opens mid-winter. \$305, \$275 members

- 1 Monday–Friday / July 11–15
- 2 Monday–Friday / July 18–22
- 3 Monday–Friday / July 25–29
- 4 Monday–Friday / August 1–5

FAMILIES KIDS EDUCATORS TEENS



GN91772 026D / KAREN BEAN

## DOZIN' WITH THE DINOS

### Spend the night at The Field Museum!

Overnights are held on select Fridays and one Saturday from 5:45pm to 9am the following morning. Designed for families with children ages 6–12 years old. Tickets for the 2016 season are on sale now! Visit [fieldmuseum.org/overnights](http://fieldmuseum.org/overnights) for dates.

Standard Overnight: \$65, \$60 members/groups  
Premium Package 1: \$78, \$68 members  
Premium Package 2 with Tour: \$90, \$80 members

Select Fridays + one Saturday

FAMILIES KIDS EDUCATORS TEENS



LEARNING CENTER / THE FIELD MUSEUM

## LEARNING THROUGH COLLECTIONS

### Professional Development for Educators

Join us Saturdays this winter and spring for professional development focused on working with museum objects and collections in your classroom. Education can be hands-on, collaborative, and inquiry-based when you incorporate our Learning Collection items into your curriculum. FREE with pre-registration.

Jan 23 / Feb 20 / Mar 19 / Apr 16

FAMILIES KIDS EDUCATORS TEENS



312.665.7400

312.665.7700

For event details, program registration, and to explore the Museum's full events calendar, please visit [fieldmuseum.org/at-the-field](http://fieldmuseum.org/at-the-field).



LEARNING CENTER / THE FIELD MUSEUM



GN2004.0750 / JOHN WEINSTEIN



COURTESY OF MUSIC BOX THEATRE

## FORUM @ THE FIELD

Forum @ The Field is an exciting new professional development opportunity for pre-K-12 educators. The program is designed to enhance understanding of Museum teaching and learning techniques, expose educators to our unique and varied collections, and provide opportunities to mingle with like-minded colleagues. FREE with pre-registration.

March 24 + 31

FAMILIES / KIDS EDUCATORS TEENS



LEARNING CENTER / THE FIELD MUSEUM

## TEENS TAKE THE FIELD

Explore the research and collections of The Field through the lens of digital media. Teens are invited to explore Museum exhibitions and collections and then tinker, make, and create their own digital media projects. For more information, email [digitalstudio@fieldmuseum.org](mailto:digitalstudio@fieldmuseum.org). FREE

Thursdays / 4:30-7pm  
+ select Saturdays

FAMILIES / KIDS EDUCATORS TEENS

## TEEN SUMMER WORKSHOPS

Explore the latest in scientific research and technology through the Museum's digital learning workshops. Teens and tweens are immersed in intensive design programs where they can create anything from games to videos and help engage the public with the Museum's collections and research. Scholarships available. For more information, email [digitalstudio@fieldmuseum.org](mailto:digitalstudio@fieldmuseum.org).

Tweens > June 27-July 1

Teens > July 11-July 29

FAMILIES / KIDS EDUCATORS TEENS



LEARNING CENTER / THE FIELD MUSEUM

## SUMMER TEEN VOLUNTEERS

Teen volunteers interact with visitors in the Crown Family PlayLab and Stanley Field Hall, sharing their love of science and building strong communication skills. Applications will be accepted from January 18 through March 14. For more information, email [teens@fieldmuseum.org](mailto:teens@fieldmuseum.org). FREE

June 13-August 14

FAMILIES / KIDS EDUCATORS TEENS

## EVENT SPOTLIGHT

### Cinema Science

By Matthew Northey, Public Relations

With the goal of making science more accessible to the general public, The Field Museum has partnered with the Music Box Theatre to create the Cinema Science program. Each month, a Museum scientist selects a film that relates to his or her area of expertise and then discusses the film with the movie audience, post-screening. Since the program's inception, Cinema Science has grown rapidly, reaching nearly 2,000 moviegoers through films such as *Jurassic Park*, *Thor*, and *WALL-E*.

The first screening of 2016 will take place on February 23. Museum ornithologist Josh Engel will present *The Big Year* (2011) in which three friendly rivals—played by Steve Martin, Owen Wilson, and Jack Black—cross North America in a quest to count as many species of birds as they can.

Cinema Science takes place at the Music Box Theatre located at 3733 N. Southport Avenue in Chicago. Limited space available; advance tickets recommended. \$10  
[www.musicboxtheatre.com](http://www.musicboxtheatre.com)

Tuesday / February 23 / 7pm  
**THE BIG YEAR** with Josh Engel

Sunday / March 13 / 12 noon  
**PROMETHEUS** with Jim Holstein and Eliza Sanders

Sunday / April 10 / 12 noon  
**TREMORS** with Tim Sosa

FOR ADULTS!

# MEMBERS' MAY 19+20 SAVE THE DATE NIGHTS



GN92164\_104D / KAREN BEAN

**As a member, you are invited to the most exclusive, engaging event at The Field Museum: Members' Nights!** Explore our vast collections, interact with curators and staff, and see the behind-the-scenes work that defines The Field as one of the world's great scientific and cultural institutions. Mark your calendars for Thursday, May 19, and Friday, May 20, from 5–10pm. Reservations are required and space is limited. Look for more information in the mail closer to the date.

Major Sponsor:



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EMPEROR QIN SHI HUANG'S MAUSOLEUM SITE MUSEUM

**For members only!**

## Terracotta Warriors

*Members-only Viewing and Lecture*

Be among the first to view this exciting blockbuster exhibition! As a valued member, you are invited to join us for an exclusive members-only event on March 9, from 5–9pm, in celebration of our upcoming exhibition, *China's First Emperor and His Terracotta Warriors*. Enjoy cocktails and hors d'oeuvres followed by a lecture where you'll learn more about this fascinating exhibition. To purchase tickets or for more information, please visit [fieldmuseum.org/support/members/member-events](http://fieldmuseum.org/support/members/member-events) or call 312.665.7705.

Major Sponsor:



Connect with The Field Museum online!

